In the Claims:

Please cancel claim 20-26 as indicated in the following list of claims for the present application.

1. (Original) A method of manufacturing plated through holes comprising:

bonding wires to a first substrate;

plating the wires with an electrically conductive material;

forming a dielectric material around the plated wires to create a second substrate;

removing a portion of the plating material to expose the wires; and

removing the wires leaving the plated material disposed within the second substrate forming the

plated through holes.

2. (Original) The method of claim 1, wherein the wires are curved.

3. (Original) The method of claim 1, wherein the step of removing a portion of the plating material

comprises grinding away a portion of the second substrate with the plating material disposed therein.

4. (Original) The method of claim 1, further comprising the step of removing the first substrate.

5. (Original) The method of claim 4, further comprising:

planarizing a first surface of the second substrate where the first substrate was attached,

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wherein the step of removing a portion of the plating material comprises planarizing a second

surface of the second substrate opposite the first surface.

6. (Original) The method of claim 4, wherein the first substrate has a surface contacting the second

substrate which is coated with a release material, and wherein the step of removing the first substrate

comprises etching away the release material.

7. (Original) The method of claim 1, further comprising:

coating the first substrate with a conductive material for bonding the wires onto prior to the step

of bonding the wires to the first substrate,

wherein the step of plating the wires is performed by electroplating to plate the wires and the

conductive material on the first substrate, and

wherein the step of removing the first substrate comprises removing a portion of the plating material

disposed on the first substrate.

8. (Original) The method of claim 4, further comprising:

applying a masking material to the first substrate prior to the step of plating the wires so that when

the wires are plated using electroplating, the first substrate is plated in areas that do not electrically connect

the wires,

wherein the surface of the first substrate opposite the surface bonded to the wires is coated with

a conductive material, and

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wherein vias provided through the first substrate connect the wires to the conductive material so

that the wires are interconnected during the electroplating process.

9. (Original) The method of claim 1, further comprising the step of coating the wires with at least one

additional layer of etchable material prior to the step of plating, wherein the step of removing the wires

further comprises removing the additional layers of etchable material.

10. (Original) The method of claim 1, wherein the wires are removed by etching.

11. (Original) The method of claim 1, further comprising:

inserting interconnect wires in openings in the plated through holes, wherein the interconnect wires

extend outside the plated through holes from a first surface of the second substrate.

12. (Original) The method of claim 11, further comprising:

applying solder bumps to electrically contact the plated through holes on a second surface of the

second substrate opposite the first surface.

13. (Original) The method of claim 11, wherein the interconnect wires further extend outside the plated

through holes from a second surface of the second substrate.

14. (Original) The method of claim 11, wherein the wires removed were curved to form curved plated

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through holes, and wherein the interconnect wires inserted into the plated through holes are held in place by friction between the curved plated through holes and the interconnect wires.

15. (Original) The method of claim 1, further comprising:

inserting resilient probes in openings in the plated through holes, wherein the second substrate and resilient probes form part of a probe card assembly.

16. (Original) A method of manufacturing plated through holes comprising:

bonding wires coated with a first layer of material to a substrate;

plating the coated wires;

removing a portion of the plating to expose the coated wires; and

etching to remove the first layer of material, leaving the plating material forming the plated through

holes with the wires disposed inside.

17. (Original) The method of claim 16, further comprising:

bending the plated through holes to cause the wires disposed inside to extend outside of openings formed by the plated through holes.

18. (Original) The method of claim 16,

wherein only a portion of the first layer is removed, leaving a portion of the wires coated with the first layer to provide support for the wires within the plated through holes.

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19. (Original) The method of claim 16, further comprising the step of forming balls at the end of the wires using an electro-flame off tool, wherein the step of bonding the wires to the substrate comprises bonding the balls to the substrate.

20-26. (Cancelled)